NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [x] Initial [ ] Annual [ ] Special			Test Date: 3-24-77	
Company: Aztec Oil & Gas Company		Connection: El Paso Natural Gas Company		
Pool: Blanco		Formation: Pictured Cliffs		Unit:
Completion Date: 3-14-77	Total Depth: 5774'	Plug Back TD: 5704'	Elevation: 6544' KB	Farm or Lease Name: Johns
Csg. Size: 7.000 / 4.500 — Wt.: 20.0# / 10.50# — d: 6.456 / 4.052 — Set At: 3383' / 3284-5772		Perforations: From 3135' To 3188'		Well No.: #1-A
Tbg. Size: 1.900 — Wt.: 2.75# — d: 1.610 — Set At: 3162'		Perforations: From To		Unit: D — Sec.: 19 — Twp.: T32N — Rge.: R11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Multiple		Packer Set At: 3284'		County: San Juan
Producing Thru: Tbg.	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.700						

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						896		896		
1.	2"	X 3/4"				192		542		1 hr
2.						171		487		2 hrs
3.						160		454		3 hrs
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		172.2	1.0000	.9258	1.000	1,971
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 908.2 P_c^2 824,827

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		466.2	217,342	607,485
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3578$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.2969$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,556$

Absolute Open Flow 2,556 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Cliff Pistole	James Smith	